THE INVENTION CLAIMED IS

- 1. In a method for producing a film by casting a preformed solution, the improvment comprising: casting the preformed solution using an atomizer.
- 2. The improvement of Claim 1, wherein using an atomizer spreads the preformed solution in a fine mist.
- 3. The improvement of Claim 1, wherein the casting with the atomizer is carried out at room temperature.
- 4. The improvement of Claim 1, wherein the casting of the preformed solution is carried out by spraying the preformed solution with the atomizer on a heated substrate.
- 5. The improvement of Claim 4, additionally including heating the substrate by direct heating or by blowing hot air there across.
- 6. The improvement of Claim 1, additionally including forming the preformed solution.
- 7. The improvement of Claim 6, wherein forming the preformed solution is carried out so as to include a solvent and dispersant for preventing agglomeration.
- 8. The improvement of Claim 7, wherein forming the preformed solution is carried out such that solvent has a high volatility and the solution has a low viscosity.
- 9. The improvement of Claim 7, wherein the solvent is organic.
- 10. The improvement of Claim 7, wherein the solvent is composed of material selected from the group consisting of ethanol, methanol and alcohol.
- 11. The improvement of Claim 6, wherein forming the preformed solution is carried out by:

dispersing powder to be coated in a solvent,

adding a dispersant to prevent agglomeration and adding at least one of the group consisting of plasticizers and binders.

- 12. The improvement of Claim 11, wherein the solvent of thus formed solution has a high volatility and solution has a low viscosity.
- 13. The improvement of Claim 12, wherein said solvent is organic or a mixture of organic and water.
- 14. The improvement of Claim 12, wherein said solvent is selected from the group consisting of ethanol, methanol and alcohol.
- 15. The improvement of Claim 12, wherein casting the preformed solution is carried out by the atomizer at a temperature below about 100° C.
- 16. The improvement of Claim 15, wherein casting of the preformed solution is carried out by the atomizer by spraying a mist of the preformed solution onto a heated substrate.
- 17. An aerosol spray casting method, comprising preparing a solution by: dispersing a powder to be coated in a solvent, adding to the solution a dispersant to prevent agglomeration, and adding at least one of the plasticizers and binders as needed to the solution, and

depositing the solution onto a substrate to be coasted using an atomizer.

- 18. The method of Claim 17, wherein the solvent is selected from the group consisting of ethanol and methanol.
- 19. The method of Claim 17, wherein depositing the solution is carried out at a temperature below about 100° C.
- 20. The method of Claim 17, wherein depositing the solution is carried out by spraying via the atomizer on a heated substrate.